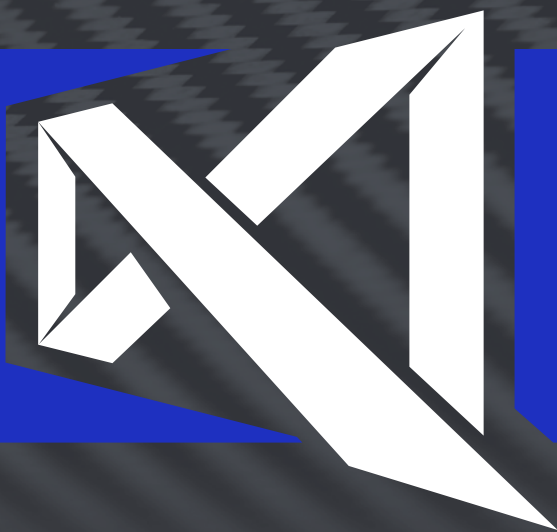




GXP Platform™ v2.3

Release Enhancements



BAE SYSTEMS

INSPIRED WORK





An unrivaled capacity for discovery, visualization, and exploitation of mission-critical data

The release of the GXP Platform™ v2.3 delivers exciting new geospatial capabilities while laying the foundation for further advances in cloud-based workflows, mobile solutions, and video analytics. Current release enhancements include:

- » Advanced system administration and software configuration providing browser-based configuration management to customize GXP Xplorer®, GXP WebView™, GXP InMotion™, and GXP OnScene
- » Enhanced Application Program Interface (API) and associated documentation for third-party integration and customization of GXP Platform services
- » Customized data presentation of user interfaces for data type queries and filters as well as metadata and map view displays
- » Improved operability between GXP® solutions
- » Infrastructure updates supporting Microsoft Windows® 10

Based on customer requests, these enhancements, along with the recent addition of the Layer Manager, ensure an optimal user experience while expanding synergies between all of the GXP Platform solutions.

System administration and configuration

System administration and software configuration enhancements provide browser-based configuration management to customize GXP Xplorer, GXP WebView, and GXP InMotion.

Browser-based system administration enables management of:

- » User accounts, user groups, and associated roles
- » Authentication settings and configure Sign-in settings
- » Network settings, licensing, client services, and hosted Web services
- » GXP Xplorer settings including cataloging, discovery, access controls, services, federation, and plug-ins
- » GXP InMotion Missions
- » Global settings which customize the GXP Xplorer, GXP WebView and GXP InMotion applications

Note: Restarting the server is no longer required for all configuration changes.





216.272 m / 286.25

166.774 m

280.586 m / 257.30

262.454 m

18° 32' 09.980"N
72° 20' 32.995"W
WGS_84
15.13 m MSL

GXP Platform Developer Portal

The GXP Platform Developer Portal provides vital resources for developers and integrators who wish to utilize the GXP Platform API and Software Development Kit (SDK).

- » Robust documentation about the software architecture and API
- » GXP Platform architecture general description
- » Swagger service API

Back to GXP Platform


GXP Platform Developer Portal

PORTAL | DOCS | SWAGGER | USEFUL LINKS


The GXP Platform Developer Portal provides vital resources for developers and integrators who wish to utilize the Platform API and SDK. From here you can access documentation for both the Platform Server API and the Web Client API.



Learn more about our [architecture](#) to get a better understanding of the underlying components that comprise the GXP Platform.



Take a look at [the API](#) and start building feature rich applications leveraging GXP Platform technology.



Test API calls using the [Swagger](#) interface. Swagger provides an easy and intuitive way to observe the exact behavior of server API calls.



SWAGGER

The World's Most Popular Framework for APIs.

swagger

/admin

/batch

/capture

/catalog

/cdm

/change-log

/config-vis

swagger

/conversion

/dataset

/dib-connector

/docs

/download

/export

/federation

swagger

/filesystem

/gazetteer

/ingest

/jobs

/jpip

/migration

4

GXP Platform Developer's

gldbaee434355.goldlink.rootinka.net/api/v1.4/docs/portal/developer-docs/index.html

GXP Platform

General

Overview

Technologies

Understanding Resources

Platform Scalability

GXP Platform Datasets

Platform Architecture

Architecture Overview

Server Architecture

Client Architecture

Acronyms

GXP Platform Developer's Documentation

Geospatial xExploitation Products (GXP®), © 2016 RAE Systems – v1.4

General

Overview

The GXP Platform is an environment that can be utilized to create software applications in the geospatial domain. The GXP Platform is comprised of three server-based software applications: GXP Xplorer, GXP WebView, and GXP InMotion. In many ways, these applications can be extended to meet the needs of an integrator and/or developer. In relation to the GXP Platform, an **integrator** is a person/entity that would utilize the current functionality already provided by the GXP Platform, and a **developer** is a person/entity that would extend or create new functionality within the GXP Platform.

Getting Started

In order to start working with the GXP Platform, the **Technologies** that are utilized should be understood. The **[GXP Platform Links]** section provides links to pertinent resources that are provided with the GXP Platform. The **Development Links** section provides links to the documentation of many technologies used in the GXP Platform.

i

The **[GXP Platform Links]** assume that the links respective console has been enabled, and their respective ports are still their defaults.

Platform Links

Link	Description
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GXP Xplorer v2.3.0

Updates to GXP Xplorer provide key foundational support, improved search results, metadata editing, and a variety of user-based enhancements.

Foundational support

- » Supporting Operating Systems Windows 10 64-bit along with Windows 7 64-bit, Windows Server 2008 R2 and 2012 R2
 - » Java 8
 - » Hardware with Internet Protocol version 6 (IPv6)
 - » Internet Explorer 11
 - » Apache® Web Server 2.4.20
 - » PHP 5.6.21
 - » NodeJS 4.1.2
 - » GeoServer® 2.8.2
 - » LEADTOOLS® 19.0
 - » Supporting SOCET GXP® CoreSDK v4.2.0
 - » Configuration settings for zip-and-ship file download
 - » Add zip file contents to the audit log file
-



Key enhancements

- » Expanded list of Derived Sensor names supported in Search Results
 - » Advanced Discretionary Access Control (DAC) for uploading files, geographical region constraints, and metadata controls
 - » Cloud services
 - Amazon Simple Storage Service (S3) data staging and use by GXP Platform services
 - Harden security vulnerabilities
 - » JPEG 2000 Interface Protocol (JPIP) Server performance improvements
 - » Bulk metadata edit allowing a user with the edit role to query and select multiple cataloged items and update the associated metadata
 - » Enhancements for zipped downloads to allow for single files to be shipped without zip
 - » Stereo Pair Finder as a service
 - » Serve Controlled Image Base (CIB)/Compressed ARC Digitized Raster Graphic (CADRG) imagery as a Web Map Service (WMS) for map background and context layer
 - » Data conversion and status for Standing Orders
 - » Support time/date search fidelity to the seconds instead of full days
 - » Added Search By time of past 72 hours to allow Friday-Monday quick search to the list that currently contains past hour, 24 hours, week, month, and year
-

The screenshot displays the 'Global Metadata Editor' window. It features a dark-themed interface with a form for editing metadata. The form includes the following fields and controls:

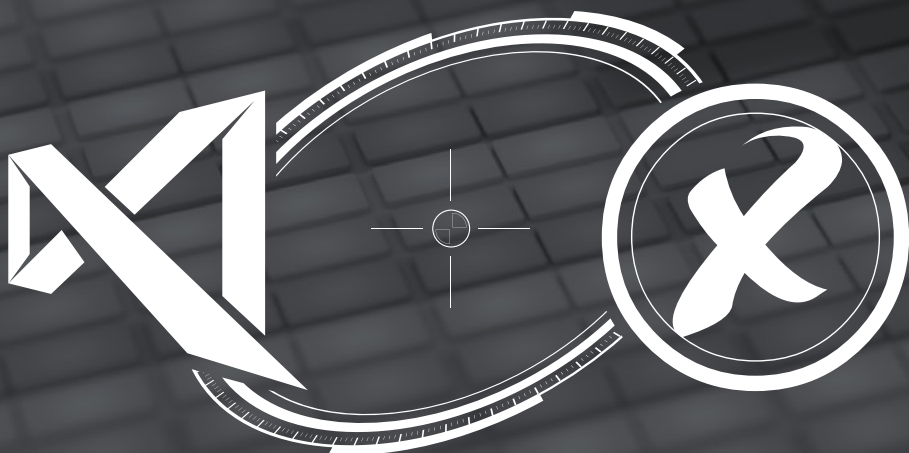
- Access ID**: A text input field.
- Area Coordinates**: A large text area with a 'Define New Area' button.
- File Number**: A text input field.
- Begin Date**: A date input field.
- Classification**: A dropdown menu.
- Countries**: A dropdown menu.
- Country**: A dropdown menu.
- Boundaries**: A dropdown menu.
- Creator**: A text input field.
- Date Produced**: A date input field.
- Derived Sensor**: A text input field.
- Description**: A large text area.
- End Date**: A date input field.
- Keywords**: A text input field.
- Mission ID**: A text input field.
- Product/Spec ID**: A text input field.
- Region**: A dropdown menu.
- Target Area ID**: A text input field.
- Target ID**: A text input field.
- Target Name**: A text input field.
- Title**: A text input field.

At the bottom right of the form, there are 'Save' and 'Cancel' buttons.

Enhanced interoperability between GXP products

Smart services for imagery loading into SOCET GXP via pixel streaming or JPIP.

- » Format dependencies
- » Network (data visibility)
- » Stream JPIP and metadata for JPEG 2000 images
- » Stream all common image formats along with robust metadata
- » SOCET GXP v4.2 user interface improvements for the Workflow Improvement Module (WIM) interface to GXP Explorer and the GXP Platform including:
 - JPIP and Pixel server streaming
 - Direct file open for images and other geospatial data, such as terrain and shapefiles
 - Search By display extents, area of interest, and point with radius
 - Search by metadata and metadata ranges
 - Free-text search
 - Filter search results by data type
 - Select from multiple catalogs
 - Improvements for handling user credentials, Public Key Infrastructure (PKI), and tokens
 - Search by Collection Angle



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Licensing

Software licenses may be requested on the MyGXP Customer Portal:

www.MyGXP.com

For additional support and contact information, please visit our website:

www.baesystems.com/gxp

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Geospatial imagery courtesy of DigitalGlobe®.

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